# West Virginia Department of Environmental Protection Division of Air Quality



# Title V Operating Permit Revision

Earl Ray Tomblin Governor

Randy C. Huffman Cabinet Secretary

# For Significant Modification Permitting Action Under 45CSR30 and Title V of the Clean Air Act

Permit Action Number:

SM01 SIC: 4922

Name of Permittee:

Columbia Gas Transmission, LLC Clendenin Compressor Station

Facility Name/Location: County:

Kanawha

Facility Address:

1700 MacCorkle Ave, SE Charleston, WV 25314

Description of Permit Revision:

This modification is to increase the output of the Solar Centaur T-4500 turbine engine, remove four natural gas-fired engines, and add one Total Energy Resources fuel gas heater. Other changes have been made to the facility since the last Title V renewal and will also be

incorporated into this modification.

# **Initial Title V Permit Information:**

Permit Number:

R30-03900048-2012

**Effective Date:** 

November 14, 2012

**Expiration Date:** 

October 31, 2017

**Directions To Facility:** 

Traveling north on US Route 119 from Clendenin, go approximately 0.8 mile and turn right onto Thorofare Road (WV secondary Route 59). Proceed approximately 2.5 miles and turn right onto Route 59-2 and travel approximately

1.2 miles to the station.

THIS PERMIT REVISION IS ISSUED IN ACCORDANCE WITH THE WEST VIRGINIA AIR POLLUTION CONTROL ACT (W.VA. CODE §§ 22-5-1 ET SEQ.) AND 45CSR30 - "REQUIREMENTS FOR OPERATING PERMITS." THE PERMITTEE IDENTIFIED AT THE FACILITY ABOVE IS AUTHORIZED TO OPERATE THE STATIONARY SOURCES OF AIR POLLUTANTS IDENTIFIED HEREIN IN ACCORDANCE WITH ALL TERMS AND CONDITIONS OF THIS PERMIT.

Date Issued

April 14, 2015

Director

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# 1.0 Emission Units and Listing of Applicable Requirements

Please note that not all sections of this permit may be applicable to this facility. The applicable requirements column in the table below indicates which of the requirements in Sections 2.0 through 24.0 of this permit are applicable to each emissions unit.

			Gan yara	TO 001 7	per min ai	and the state of t
Emission Unit ID	Emission Point ID	Emission Unit Description (Make, Model, Serial No.)	Year Installed	Design Capacity	Control Device	Applicable Requirements
		Facility-Wide			5	Sections 2.0, 3.0, and 23.0
BLR3*	81.3	Heating System Boiler; Weil McLain, Model BG988	6661	2.4 mmBtu/hr	¥ <del>N</del>	Section 4.0
HTR1*	Ħ	Indirect-Fired Line (Fuel Gas) Heater, Total Energy Resources, Inc. (TER1), Model DB13	2006	0.2 mmBtu/ar	N/A	Sections 4.0 and 17.0; 45CSR34; 40 CFR 63 Subpart DDDDD (\$63.7495(b)**; \$63.7500(e); 8863.7540(a)(10)(i)-(vi), (a)(12), (a)(13); 8863.7555(a), (i), and (i), 863.7560; 8863.7545(a) and (b); 8863.7550(b), (c), (h); 8863.7530(d) and (e))
HTR2*	H2	Total Energy Resources Indirect – Fired Fuel Gas Heater	2014	0.1 MMBtu/hr	N/A	Sections 4.0, 17.0, and 21.0; 45CSR34; R13-2247B (Conditions 4.1.1, 7.1.1, 7.1.2, 7.1.3, 7.2.1, 7.4.1, 7.4.2, 7.5.1, 7.5.2, 7.5.3, 7.5.4.) 40 CFR 63, Subpart DDDDD (\$63.7500(e); \$\$63.7540(a)(10)(i)-(vi), (a)(12), and (a)(13); \$\$63.755(a), (i), and (i); \$\$63.7550(b), (e), (h).
05801*	109	Reciprocating Engine/Reciprocating Compressor; Cooper-Bessemer LSV 12; 4-cycle, lean burn	9961	3,000 hp	N/A	Sections 20.0 and 21.0; CO.R1 C 2007 4A (2005); 45CSR§40-90
05802*	E02	Reciprocating Engine/Reciprocating Compressor; Cooper Bessemer LSV 12; 4-cycle, lean burn	1966	3,000 hp	W/A	Sections 20.0 and 21.0;CO R1-C 2007 4A (2005); 45CSR§40-90
<del>05803*</del>	E03	Reciprocating Engine/Reciprocating Compressor; Cooper-Bessemer LSV 12; 4-cycle, lean-burn	<del>8961</del>	3,000 hp	N/4	Sections 20.0 and 21.0; CO-R1-C-2007 4A (2005); 45CSR\$40-90
€05804	£04	Reciprocating Engine/Reciprocating Compressor; Cooper Bessegner LSV 12; 4-eyole, lean-burn	1968	3,000 hp	N/A	Sections 20.0 and 21.0; CO R1 C-2007 4A (2005); 45CSR\$40-90
05805*	E05	Reciprocating Engine/Reciprocating Compressor; Cooper-Bessemer LSV 16; 4-cycle, lean burn	1969	4,000 hp	N/A	Sections 20.0 and 21.0; CO-R1-C-2007-4A (2005); 45CSR§40-90
·90850	E06	Turbine Engine/Centrifugal Compressor; Solar Centaur T-4500 turbine;	1761	3,550 4,500 hp	N/A	Sections 6.0, 20.0, and 21.0; CO-R1-C-2007-4A (2005); R13-2247A <u>B</u> (Conditions 4.1.1, 6.1.1, 6.1.2, 6.2.1, 6.3.1, 6.4.1, 6.5.1, 6.5.1, 6.5.2, 6.5.3); 45CSR640-90
05807*	E07	Reciprocating Engine/Reciprocating Compressor; Cooper-Bessemer LSV 12; 4-cycle, lean burn	1971	3,000 hp	N/A	Sections 20.0 and 21.0; CO-R1-C-2007-4A (2005); 45CSR§40-90
058G2*	63	Reciprocating Emergency Engine/Generator; Waukesha VGF-H24GLD; 4-cycle, lean burn	1998	500 hp	N/A	Sections 6.0, 10.0, 20.0, and 21.0; R13-2247AB (Conditions 4.1.1, 5.1.1, 5.1.2, and 5.2.1) 45CSR34; CO-R1-C-2007-4A (2005); 45CSR§40-90  The following 40 CFR Part 63, Subpart ZZZZ Requirements Emission Limitations: 40 CFR § 63.6602 and Table 2c (Line 6) to 40 CFR 63, Subpart ZZZZ  Monitoring: 40 CFR § 63.6625(e), (f), (h), and (j) Continuous Compliance: 40 CFR §§ 63.6605 & 63.6640 and Table 6 (Line 9) to CFR §§ 63.6605 & 63.6640 and Paper Allowing 40 CFR §§ 63.665 & 63.6640 and
				_	_	Nocollangebille: 40 Cr.A. v 03.0033 (Except c)

West Virginia Department of Environmental Protection • Division of Air Quality Approved: October 31, 2012 • Modified: WA April 14, 2015

Title V Operating Permit R30-3900048-2012(SM01)
Columbia Gas Transmission, LLC • Clendenin Compressor Station

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Applicable Requirements	Reporting: Footnote 1 of Table 2c to 40 CFR 63, Subpart ZZZZ General Provisions of 40 CFR 63Except per 40 CFR § 63.6645(a)(5), the following do not apply: 40 CFR §§ 63.7(b) and (c); 63.8(e), (f)(4) and (f)(6); and 63.9(b)-(e), (g) and (h).	None	None	None
Control Device		N/A	N/A	N/A
Design Capacity		33 x 0.012 MMBtu/hr	10 x 0.06 MMBtu/hr	9 x 0.06 MMAtu/hr
Year Installed		N'A	N/A	2014
Emission Unit Description (Make, Model, Serial No.)		33 CATCO Catalytic Heaters	10 CATCO Catalytic Heaters	9 CATCO Catalytic Heaters
Emission Point ID	·	SH1	SH2	SH3
Emission Unit ID		<u>SPACE1</u>	SPACE2	<u>SPACE3</u>

\* Equipment is fueled exclusively with pipeline quality natural gas.

\*\* Compliance Date—January 31, 2016.

# 15.0 Natural Gas Transmission and Storage Facilities which are major sources of HAPs subject to 40 C.F.R. 63 Subpart HHH

15.0.1. The provisions of 40 C.F.R. Part 63 Subpart HHH applicable to the emission unit are specified in the Emission Units Table in Section 1.0.

# 16.0 Natural Gas Production Facilities subject to 40 C.F.R.63 Subpart HH

16.0.1. The provisions of 40 C.F.R. Part 63 Subpart HH applicable to the emission unit are specified in the Emission Units Table in Section 1.0.

# 17.0 Boilers and Process Heaters subject to 40 C.F.R.63 Subpart DDDDD

17.0.1. The Provisions of 40 C.F.R. Part 63 Subpart DDDDD applicable to the emission unit are specified in the Emission Units Table in Section 1.0. The boiler or process heater shall comply with all applicable requirements for existing affected sources, pursuant to 40 C.F.R. 63, Subpart DDDDD, "National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters" no later than the existing source compliance date of March 21, 2014, or as amended by US EPA.

If required to submit a Notification of Compliance Status (NOCS) pursuant to 40 C.F.R. 63, Subpart DDDDD, the permittee shall also submit a complete application for significant modification to the Title V permit to incorporate the specific requirements of the rule no later than the maximum time allowed for the NOCS submittal in 40 C.F.R. §63.7545(e).

If requested, this Title V permitting deadline may be changed upon written approval by the Director. The permittee shall request the change in writing at least 30 days prior to the application due date.

[40 C.F.R. 63, Subpart DDDDD, 45CSR§30-6.5.b.]

# 18.0 Small Industrial-Commercial-Institutional Steam Generating Units subject to 40 C.F.R.60 Subpart Dc

18.0.1. The provisions of 40 C.F.R. Part 60 Subpart Dc applicable to the emission unit are specified in the Emission Units Table in Section 1.0.

# 19.0 Boiler subject to 40 C.F.R. 63 Subpart JJJJJJ

19.0.1. The provisions of 40 C.F.R. Part 63 Subpart JJJJJJ applicable to the emission unit are specified in the Emission Units Table in Section 1.0.

# 20.0 45CSR40 requirements applicable to Stationary Internal Combustion Engines

20.0.1. The provisions of 45CSR40 applicable to Stationary Internal Combustion Engines are specified in the Emission Units Table in Section 1.0.

# 21.0 45CSR13, 45CSR14, and Consent Order Requirements

R13-2247AB CO-R1-C-2007-4A(2005)

- k. 40 CFR 60, Subpart JJJJ—Standards of Performance for Stationary Spark Ignition Internal Combustion Engines: Engines at the facility were constructed, reconstructed, or modified prior to June 12, 2006.
- 1. 40 CFR 60, Subpart KKKK—Standards of Performance for Stationary Combustion Turbines: Turbines at the facility were constructed, reconstructed, or modified prior to February 18, 2005.
- m. 40 CFR 63, Subpart HHH—National Emission Standards for Hazardous Air Pollutants from Natural Gas Transmission and Storage Facilities: The facility does not have a glycol dehydration unit and is therefore not subject to the requirements of this subpart.
- n. 40 CFR 63, Subpart YYYY—*Turbine MACT:* There is one turbine at Clendenin station which was installed in 1971. No modifications to the turbine have occurred since the original installation. This subpart does not apply pursuant to 40 CFR §63.6090(b)(4).
- o. 40 CFR 63, Subpart DDDDD Boiler MACT: There is one heating system boiler (BL3) and one process heater (H1), defined pursuant to 40 CFR §63.7575, at this facility using gaseous fuel and both are less than 10 mmBtu/hr; hence, Subpart DDDDD is not applicable.
- p. <u>o.</u> 40 CFR 64—Compliance Assurance Monitoring (CAM): Engines, turbine, boiler, and heaters do not have any add-on control; therefore, in accordance with 40 CFR §64.2(a), CAM is not applicable to this facility.

# 24.0 Compliance Plan

None

Appendix: R13-2247AB and CO-R1-C-2007-4A (2005)



West Virginia Department of Environmental Protection

Earl Ray Tomblin

Division of Air Quality

Cabinat Secretary

# Permit to Modify



R13-2247B

This permit is issued in accordance with the West Virginia Air Pollution Control Act (West Virginia Code §§22-1-1 et seq.) and 45 C.S.R. 13 - Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permits, General Permits and Procedures for Evaluation. The permittee identified at the above-referenced facility is authorized to construct the stationary sources of air pollutants identified herein in accordance with all terms and conditions of this permit.

# Issued to:

Columbia Gas Transmission Corporation Clendenin Compressor Station 039-00048

> William F. Durham Director

Esued: November 25, 2014 • Effective: November 25, 2014

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Columbia Gas Transmission Corporation • Clendenin Compressor Station

This permit will supercede and replace Permit R13-2247A.

Facility Location:

Clendenin, Kanawha County, West Virginia 1700 MacCorkle Avenue SE, Charleston, WV 25314

Mailing Address: Facility Description:

Natural Gas Compressor Station

SIC Codes:

4922

UTM Coordinates:

472.746 km Easting • 4260.604 km Northing • Zone 17

Permit Type: Modification

Description of Change: Uprati

Uprating the Solar Centaur T-4500 Turbine [E06] from 3,550 HP to 4,500 HP and adding

a 0.1 MMBtu/br indirect-fired fuel gas beater (H2).

Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§328-1-1 et seq.], Chapter 33B of the Code of West Virginia. West Virginia Code §§32-5-14.

The source is subject to 45CSR30. Changes authorized by this permit must also be incorporated into the facility's Title V operating permit. Commencement of the operations authorized by this permit shall be determined by the appropriate timing limitations associated with Title V permit revisions per 45CSR30.

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Columbia Gas Transmission Corporation • Clendenin Compressor Station

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# 1.0. Emission Units

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
058G3	G2	Waukesha VGF-H24GLD	1998	500 HP	NA
05806	E06	Solar Centaur T-4500 Turbine	1971	4.500 HP	NA
HTR	нз	Total Energy Resources Indirect-Fired Fuel Gas Heater	2014	0.1 MMBnshr	NA

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# 2.0. General Conditions

## 2.1. Definitions

- 2.1.1 All references to the "West Virginia Air Pollution Control Act" or the "Air Pollution Control Act" mean those provisions contained in W.Va. Code §§ 22-5-1 to 22-5-18.
- 2.1.2. The "Clean Air Act" means those provisions contained in 42 U.S.C. §§ 7401 to 7671q, and regulations promulgated thereunder.
- 2.1.3. "Secretary" means the Secretary of the Department of Environmental Protection or such other person to whom the Secretary has delegated authority or duties pursuant to W.Va. Code §§ 22-1-6 or 22-1-8 (45CSR§30-2.12.). The Director of the Division of Air Quality is the Secretary's designated representative for the purposes of this permit.

#### 2.2. Acronyms

CAAA	Clean Air Act Amendments	NOx	Nitrogen Oxides
CBI	Confidential Business Information	NSPS	New Source Performance Standards
CEM	Communes Emission Monitor	PM	Particulate Matter
CES	Certified Emission Statement	PM <sub>2.5</sub>	Parziculate Matter less than 2.5
C.F.R. or CFR	Code of Federal Regulations		µm in diameter
CO	Carbon Monoxide	PMC14	Particulate Matter less than
C.S.R. or CSR	Codes of State Eules		loum in diameter
DAQ	Division of Air Quality	Ppb	Pounds per Batch
DEP	Department of Environmental	Pph	Pounds per Hour
	Protection	Ppm	Parts per Million
dscm	Dry Standard Cubic Meter	Ppm, or	Parts per Million by Volume
FOLA	Freedom of Information Act	pperv	
HAP	Hazardous Air Pollutani	PSD	Prevention of Significant
HON	Hazardous Organic NESHAP		Deterrotation
HP	Horsepower	Psi	Pounds per Square Inch
Hos/her	Pounds per Hour	SIC	Standard Industrial
LDAR.	Leak Detection and Repair		Classification
M	Thousand	SIP	State Implementation Plan
MACT	Maximum Achievable	SO <sub>2</sub>	Sulfier Dioxide
	Connol Technology	TAP	Toxic Air Pollusant
MDHI	Maximum Design Heat Input	TPY	Tops per Year
MM	Million	TRS	Total Reduced Sulfur
MMBtwar or	Million British Thermal Units	TSP	Total Suspended Particulate
m mb twhr	per Hour	USEPA	United States Environmental
MMCF/hr or	Million Cubic Feet per Hour		Protection Agency
mechir		UTM	Universal Transverse Mercator
NA	Not Applicable	VEE	Visual Emissions Evaluation
NAAQS	National Ambient Air Quality	VOC	Volstile Organic Compounds
	Standards	VOL	Volstile Organic Liquids
NESHAPS	National Emissions Standards	_	
	for Hazardous Air Pollmants		

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Columbia Gas Transmission Corporation - Clendenin Compressor Station.

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#### 2.3. Authority

This permit is issued in accordance with West Virginia air pollution control law W.Va. Code §§ 22-5-1, et seq. and the following Legislative Rules promulgated thereunder:

2.3.1. 45CSR13 - Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permits, General Permits and Procedures for Evaluation:

# 2.4. Term and Renewal

2.4.1. This permit supersedes and replaces previously issued Permit R13-2247A. This Permit shall remain valid, continuous and in effect unless it is revised, suspended, revoked or otherwise changed under an applicable provision of 45CSR13 or any other applicable legislative rule;

#### 1.5. Duty to Comply

- 2.5.1. The permitted facility shall be constructed and operated in accordance with the plans and specifications filed in Permit Application R13-2247, R13-2247A, R15-2247B, and any modifications, administrative updates, or amendments thereto. The Secretary may suspend or revoke a permit if the plans and specifications upon which the approval was based are not adhered to; [45CSR5513-5.21 and -10.3.]
- 2.5.2. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the West Virginia Code and the Clean Air Act and is grounds for enforcement action by the Secretary or USEPA:
- 2.5.3. Violations of any of the conditions contained in this permit, or incorporated herein by reference, may subject the permittee to civil and/or criminal penalties for each violation and further action or remedies as provided by West Virginia Code 22-5-6 and 22-5-7;
- 2.5.4. Approval of this permit does not relieve the permittee herein of the responsibility to apply for and obtain all other permits, licenses, and/or approvals from other agencies; i.e., local, state, and federal, which may have jurisdiction over the construction and/or operation of the source(s) and/or facility herein permitted.

# 2.6. Duty to Provide Information

The permittee shall furnish to the Secretary within a reasonable time any information the Secretary may request in writing to determine whether cause exists for administratively updating, modifying, revoking, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Secretary copies of records to be kept by the permittee. For information claimed to be confidential, the permittee shall furnish such records to the Secretary along with a claim of confidentiality in accordance with 45CSR32. If confidential information is to be sent to USEPA, the permittee shall directly provide such information to USEPA along with a claim of confidentiality in accordance with 46 C.F.R. Parx 2.

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#### 2.7. Duty to Supplement and Correct Information

Upon becoming aware of a failure to submit any relevant facts or a submitted of incorrect information in any permit application, the permittee shall promptly submit to the Secretary such supplemental facts or corrected information.

#### 2.8. Administrative Update

The permittee may request an administrative update to this permit as defined in and according to the procedures specified in 45CSR13.

[45CSR513-4.]

#### 2.9. Permit Modification

The permittee may request a minor modification to this permit as defined in and according to the procedures specified in 45CSR13.

[45CSR\$13-5.4.]

# 2.10 Major Permit Modification

The permittee may request a major medification as defined in and according to the procedures specified in 45CSR14 or 45CSR19, as appropriate.

[45CSR§13-5.1]

#### 2.11. Inspection and Entry

The permissee shall allow any authorized representance of the Secretary, upon the presentation of credentials and other documents as may be required by law, to perform the following:

- a. At all reasonable times (including all times in which the faculity is in operation) enter upon the permittee's premises where a source is located or emissions related activity is conducted, or where records must be kept under the conditions of this permit:
- Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit:
- c. Inspect at reasonable times (including all times in which the facility is in operation) any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit;
- d. Sample or monitor at reasonable times substances or parameters to determine compliance with the permit or applicable requirements or ascertain the amounts and types of air pollutants discharged.

## 2.12. Emergency

2.12.1. An "emergency" means any situation arising from sudden and reasonable unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by

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improperly designed equipment, lack of preventative maintenance, careless or improper operation or operator error.

- 2.12.2. Effect of any emergency. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions of Section 2.12.3 are mer.
- 2.12.3. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:
  - a. An emergency occurred and that the permittee can identify the cause(s) of the emergency.
  - The permitted facility was at the time being properly operated;
  - c. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
  - d. The permittee submitted notice of the emergency to the Secretary within one (1) working day of the time when emission limitations were exceeded due to the emergency and made a request for variance, and as applicable rules provide. This notice must contain a detailed description of the emergency, any steps taken to mingate emissions, and corrective actions taken.
- 2.13.4. In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.
- 2.12.5 The provisions of this section are in addition to any emergency or upset provision contained in any applicable requirement.

# 2.13. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a permittee in an enforcement action that it should have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. However, nothing in this paragraph shall be construed as precluding consideration of a need to halt or reduce activity as a mitigating factor in determining penalties for noncompliance if the health, safety, or environmental impacts of halting or reducing operations would be more serious than the impacts of continued operations.

#### 2.14. Suspension of Activities

In the event the permittee should deem it necessary to suspend, for a period in excess of sixty (60) consecutive calendar days, the operations authorized by this permit, the permittee shall notify the Secretary, in writing, within two (2) calendar weeks of the passing of the sixtleth (60) day of the suspension period.

# 2.15. Property Rights

This permit does not convey any property rights of any sort or any exclusive pravilege.

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# 2.16. Severability

The provisions of this permit are severable and should any provision(s) be declared by a court of competent jurisdiction to be invalid or unenforceable, all other provisions shall remain in full force and effect.

# 2.17. Transferability

This permit is transferable in accordance with the requirements outlined in Section 10.1 of 45CSR13. [45CSR\$13-10.1.]

# 2.18. Notification Requirements

The permittee shall notify the Secretary, in writing, no later than thirty (30) calendar days after the actual startup of the operations authorized under this permit.

# 2.19. Credible Evidence

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defense otherwise available to the permittee including, but not limited to, any challenge to the credible evidence rule in the context of any future proceeding.

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#### 3.0. Facility-Wide Requirements

- 3.1. Limitations and Standards
  - Open burning. The open burning of refuse by any person, firm, corporation, association of public agency is prohibited except as noted in 45CSR§6-3.1.
     [45CSR§6-3.1.]
  - 3.1.2. Open burning exemptions. The exemptions listed in 45CSR56-3.1 are subject to the following subulation: Upon notification by the Secretary, no person shall cause, suffer, allow or permit any form of open burning during existing or predicted periods of amospheric stagnation. Notification shall be made by such means as the Secretary may deem necessary and feasible. [45CSR66-3.2.]
  - 3.1.3. Asbestos. The permittee is responsible for thoroughly inspecting the facility, or part of the facility, prior to commencement of demolition or renovation for the presence of asbestos and complying with 40 C.F.R. § 61.145, 40 C.F.R. § 61.148, and 40 C.F.R. § 61.150. The permittee, owner, or operator must notify the Secretary at least ten (10) working days prior to the commencement of any asbestos removal on the forms prescribed by the Secretary if the permittee is subject to the notification requirements of 40 C.F.R. § 61.145(b)(3)(i). The USEPA, the Division of Waste Management, and the Bureau for Public Health Environmental Health require a copy of this notice to be sent to them.

    [46CFR§61.145(b) and 45CSR§34]
  - 3.1.4. Oder. No person shall cause, suffer, allow or permit the discharge of air pollumnts which cause or contribute to an objectionable odor at any location occupied by the public. [45CSR54-3.1] [State Enforceable Only]
  - 3.1.5 Permanent shutdown. A source which has not operated at least 500 hours in one 12-month period within the previous five (5) year time period may be considered permanently shutdown, unless such source can provide to the Secretary, with reasonable specificity, information to the contrary. All permits may be modified or revoked and/or reapplication or application for new permits may be required for any source determined to be permanently shutdown.

    [45CSR513-10.5.]
  - 3.1.6. Standby plan for reducing emissions. When requested by the Secretary, the permutee shall prepare standby plans for reducing the emissions of air polintants in accordance with the objectives set forth in Tables I. II, and III of 45C SE11.
    [45CSR§11-5.2.]
- 3.2. Monitoring Requirement: [Reserved]
- 3.3. Testing Requirements
  - 3.3.1. Stack testing. As per provisions set forth in this permit or as otherwise required by the Secretary, in accordance with the West Virginia Code, underlying regulations, permits and orders, the permittee shall conduct test(s) to determine compliance with the emission limitations set forth in this permit and/or established or set forth in underlying documents. The Secretary, or his duly authorized representative, may at his option witness or conduct such test(s). Should the Secretary.

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exercise his option to conduct such test(s), the operator shall provide all necessary sampling connections and sampling ports to be located in such manner as the Secretary may require, power for test equipment and the required safety equipment, such as scaffolding, railings and ladders, to comply with generally accepted good safety practices. Such tests shall be conducted in accordance with the methods and procedures set forth in this permit or as otherwise approved or specified by the Secretary in accordance with the following:

- a. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with 40 C.F.R. Parts 60, 61, and 63 in accordance with the Secretary's delegated authority and any established equivalency determination methods which are applicable. If a testing method is specified or approved which effectively replaces a test method specified in the permit, the permit may be revised in accordance with 45C9R§13-4, or 45C5R§13-5.4 as applicable.
- b. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with applicable requirements which do not involve federal delegation. In specifying or approving such alternative testing to the test methods, the Secretary, to the extent possible, shall utilize the same equivalency criteria as would be used in approving such changes under Section 3.3.1.a, of this permit. If a testing method is specified or approved which effectively replaces a test method specified in the permit, the permit may be revised in accordance with 45CSR§13-4, or 45CSR§13-5.4 as applicable.
- c. All periodic tests to determine mass emission limits from or air pollutant concentrations in discharge stacks and such other tests as specified in this permit shall be conducted in accordance with an approved test protocol. Unless previously approved, such protocols shall be submitted to the Secretary in writing at least thirty (30) days prior to any testing and shall contain the information set forth by the Secretary. In addition, the permittee shall notify the Secretary at least fifteen (15) days prior to any testing so the Secretary may have the opportunity to observe such tests. This notification shall include the actual date and time during which the test will be conducted and, if appropriate, verification that the tests will fully conform to a referenced protocol previously approved by the Secretary.

(WV Code § 22-5-4(a)(15))

#### 3.4. Recordkeeping Requirements

3.4.1 Retention of records. The permittee shall maintain records of all information (including monitoring data, support information, reports, and notifications) required by this permit recorded in a form suitable and readily available for expeditious inspection and review. Support information includes all calibration and maintenance records and all original ship-chart recordings for continuous monitoring instrumentation. The files shall be maintained for at least five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent two (2) years of data shall be maintained on site. The remaining three (3) years of data may be maintained off site, but must remain accessible within a reasonable time. Where appropriate, the permittee may maintain records electronically (on a computer, on computer floppy disks, CDs, DVDs, or magnetic tape disks), on microfilm, or magnetic tape disks).

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3.4.2. Odors. For the purposes of 45CSR4, the permittee shall maintain a record of all odor complaints received, any investigation performed in response to such a complaint, and any responsive action(s) taken.
[45CSR§4. State Enforceable Only.]

## 3.5. Reporting Requirements

- 3.5.1. Responsible official. Any application form, report, or compliance certification required by this permit to be submitted to the DAQ and/or USEPA shall contain a certification by the responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- 3.5.2. Confidential information. A permittee may request confidential treatment for the submission of reporting required by this permit pursuant to the limitations and procedures of W.Va. Code § 22-5-10 and 45CSR31.
- 3.5.3. Correspondence. All notices, requests, demands, submissions and other communications required or permitted to be made to the Secretary of DEP and/or USEPA shall be made in writing and shall be deemed to have been duly given when delivered by hand, or mailed first class with postage prepaid to the address(es) set forth below or to such other person or address as the Secretary of the Department of Environmental Protection may designate:

If to the DAQ:

Director

WVDEP

Division of Air Quality 601 57<sup>th</sup> Street

Charleston, WV 25304-2345

If to the US EPA:
Associate Director

Office of Enforcement and Comphance

Assistance (3AP20)

U.S. Environmental Protection Agency

Region DI 1650 Arch Street

Philadelphia, PA 19103-2029

# 3.5.4. Operating Fee

- 3.5.4.1. In accordance with 45C5R30 Operating Permit Program, the permittee shall submit a certified emissions statement and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality. A receipt for the appropriate fee shall be maintained on the premises for which the receipt has been issued, and shall be made immediately available for inspection by the Secretary or his/her duly authorized representative.
- 3.5.5. Emission inventory. At such time(s) as the Secretary may designate, the permittee herein shall prepare and submit an emission inventory for the previous year, addressing the emissions from the facility and/or process(es) authorized herein, in accordance with the emission inventory submittal requirements of the Division of Air Quality. After the initial submittal, the Secretary may, based upon the type and quantity of the pollutants emitted, establish a frequency other than on an annual basis.

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#### 4.0. Source-Specific Requirements

#### 4.1. Recordkeeping Requirements

- 4.1.1. Monitoring information. The permittee shall keep records of monitoring information that include the following:
  - s. The date, place as defined in this permit and time of sampling or measurements;
  - The date(s) analyses were performed;
  - The company or entity that performed the analyses;
  - d. The analytical techniques or methods used:

  - e. The results of the analyses; and
    f. The operating conditions existing at the time of sampling or measurement.

# 5.0. Source-Specific Requirements (058G2/G2)

#### 5.1. Limitations and Standards

- 5.1.1 The quantity of natural gas that shall be consumed in the 500 hp natural gas fired reciprocating engine /generator (G2) shall not exceed 5,425 cubic feet per hour or 47.52 x 10° cubic feet per
- 5.1.2. Maximum emissions from the 500 hp natural gas fixed Wankesha VGF-H24GLD reciprocating engine generator shall not exceed the following limits:

Polimant	Maximum Hourly Emissions (Din)	Maximum Augua) Emissions (ton yr)
Nirogen Oxides	1,19	4.83
Carbon Monoxide	£.43	6.28

#### Recordkeeping Requirements

5.2.1. To demonstrate compliance with section 5.1.1 and 5.1.2, the permittee shall maintain records of the amount of natural gas consumed in the 500 bp natural gas fired reciprocating engine ogenerator (G2). Said records shall be maintained on site for a period of five (5) years. Said records shall be made available to the Director of the Division of Air Quality of hisher duly authorized representative upon request and shall be certified by a responsible official upon submittal.

# 6.0. Source-Specific Requirement; (05806.E06)

# Limitations and Standards

- 6.1.1. The quantity of natural gas that shall be consumed in the 4,500 kp Solar Centror T-4500 arroine (E06) shall not exceed 45,192 cubic feet per bour.
- 6.1.2. During the ozone season (May 1 September 30) the maximum NO, limit for Solar Centeur T-4500 (E06) shall not exceed 2.5 gram. BHP-hr.

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## 6.2. Monitoring Requirements

6.2.1. The permittee must conduct a parametric monitoring program to quantify NO<sub>c</sub> reductions. The parametric monitoring program must monitor the BHP-hrs. The permittee will use the BHP-hrs to determine the NO<sub>c</sub> emission rate and overall NO<sub>c</sub> reduction.

#### 6.3. Testing Requirements

6.3.1. See Section 3.3, Facility-Wide Testing Requirements.

#### 6.4. Recordkeeping Requirements

6.4.1. To demonstrate compliance with Sections 6.1.1 and 6.1.2, the permittee shall maintain records of the hours of operation of Solar Centaur T-4500 (E06), the BHP-hrs of Solar Centaur T-4500 (E06), ozone season NO<sub>a</sub> emission reduction for Solar Centaur T-4500 (E06), and the quantity of fuel combusted in Solar Centaur T-4500 (E06). Said records shall be maintained on site for a period of five (5) years. Said records shall be made available to the Director of the Division of Air Quality of his/her duly authorized representative upon request and shall be certified by a responsible official upon submittal.

# 6.5. Reporting Requirements

- 6.5.1. The permittee shall submit a report which documents the total ozone season NO<sub>x</sub> emissions reduction from 1995 baseline by October 31 of each year beginning in 2007.
- 6.5.2. The permittee shall notify the Secretary of any required performance test at least 15 days in advance of such test.
- 6.5.3. The permittee shall submit results of all performance tests to the Secretary within 30 days of completion of such tests.

## 7.0. Source-Specific Requirements (HTR2:H2)

# 7.1. Limitations and Standards

- 7.1.1. No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any fuel burning unit which is greater than ten (10) percent opacity based on a six minute block average.
  [46CSR52-3.1.]
- 7.1.2. Compliance with the visible emission requirements of 45CSR§2-3.1 (Section 7.1.1 of this permit) shall be determined in accordance with 40 C.F.R. Part 60, Appendix A. Method 9 or by using measurements from continuous opacity monitoring systems approved by the Director. The Director may require the installation, calibration, maintenance and operation of continuous opacity monitoring systems and may establish policies for the evaluation of continuous opacity monitoring results and the determination of compliance with the visible emission requirements of 45CSR§2-3.1 (Section 7.1.1 of this permit). Continuous opacity monitors shall not be required on fuel burning units which employ wet scrubbing systems for emission control. [45CSR§2-3.2.]

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- 7.1.3. The permittee shall conduct a time-up of Fuel Gas Heater [HTR2] every 5 years as specified below:
  - To demonstrate continuous compliance;
    - (i) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may delay the burner inspection until the next scheduled unit shurdown, but you must inspect each burner at least once every 72 months). Units that produce electricity for sale may delay the burner inspection until the first ourage, not to exceed 36 months from the previous inspection. At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment:
    - (N) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;
    - (iii) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection;
    - (iv) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NOX requirement to which the unit is subject:
    - (v) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wer basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer; and
    - (vi) Maintain on-site and submit, if requested by the Administrator, an annual report containing the information in paragraphs (A) through (C) of this section.
      - (A) The concentrations of CO in the efficient stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the time-up of the boiler or process heater;
      - (B) A description of any corrective actions taken as a part of the time-up; and
      - (C) The type and amount of fuel used over the 12 months prior to the time-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit.
  - If the unit is not operating on the required date for a time-up, the time-up must be conducted within 30 calendar days of startup.
     [40CFR §§ 63.7500(e), 63.7540(a)(12), (a)(10)(i) (vi), and (a)(13)]

# 7.1. Monitoring Requirements

3.2.1 At such reasonable times as the Secretary may designate, the permittee shall conduct visible emissions observations using Method 22 for the purpose of demonstrating compliance with

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Section 7.1.1. If visible emissions are observed, the permittee shall conduct a Method 9 reading unless the cause for visible emissions is corrected within 24 hours. Records of observation will be kept for at least 5 years from the date of observation.

#### 7.3. Testing Requirements

#### 7.3.1 Reserved

# 7.4. Recordkeeping Requirements

- 7.4.1. The permittee shall keep records according to paragraphs (1) and (2) of this section:
  - (1) A copy of each notification and report that you submitted to comply with 40 CFR 63. Subpart DDDDD including all documentation supporting any Initial Notification or Notification of Compliance Status or semiananal compliance report that you submitted, according to the requirements in §63.10(b)(2)(xiv).
  - (2) Records of performance tests, fuel analyses, or other compliance demonstrations and performance evaluations as required in §63.10(b)(2)(vin).
  - (3) You must maintain records of the calendar date, time, occurrence and duration of each startup and shutdown.
  - (4) You must maintain records of the type(s) and amount(s) of fuels used during each startup and shutdown.
    [40 CFR §§ 63.7555(s), (i), and (j)]
- 7.4.2. (a) Your records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(2).
  - (b) As specified in §65.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.
  - (c) You must keep each record on life, or they must be accessible from on site (for example, through a computer network), for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). You can keep the records off site for the remaining 3 years.
    [40 CFR § 63.7560]

## 7.5. Reporting Requirements

- 7.5.1. The permittee shall provide the following notifications:
  - (a) You must submit to the Administrator all of the notifications in §553.7(b) and (c), 63.8(e). (f)(4) and (6), and 63.9(b) through (a) that apply to you by the dates specified.
  - (b) Reserved.
  - (c) As specified in [63.9(b)(4) and (5), if you startup your new or reconstructed affected source on or after January 31, 2013, you must submit an Initial Notification not later than 15 days after the actual date of startup of the affected source.
    [40 CFR §§ 63.7545 (a) and (c)]

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- 7.5.2. The permittee shall submit a 5-year compliance report as specified in paragraphs (1) through (4) of this section:
  - (1) The first compliance report must cover the period beginning on the compliance date that is specified for each boiler or process heater in §63.7495 and ending on July 31 or January 31, whichever date is the first date that occurs at least 180 days (or 1, 2, or 5 years, as applicable, if submitting an annual, biennial, or 5-year compliance report) after the compliance date that is specified for your source in §63.7495.
  - (2) The first compliance report must be postmarked or submitted no later than July 31 or January 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for each boiler or process heater in §63.7495. The first annual, biennial, or 5-year compliance report must be postmarked or submitted no later than January 31.
  - (3) Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. Annual, biennial, and 5-year compliance reports must cover the applicable 1-, 2-, or 5-year periods from January 1 to December 31.
  - (4) Each subsequent compliance report must be postmarked or submitted no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period. Annual, biennial, and 5-year compliance reports must be postmarked or submitted no later than January 31. [§ 63.7550(b)]
- 7.5.3. The permittee shall submit a compliance report with the following information:
  - (i) Company and Facility name and address.
  - (ii) Process unit information, emissions limitations, and operating parameter limitations.
  - (iii) Date of report and beginning and ending dates of the reporting period.
  - (iv) The total operating time during the reporting period.
  - (v) (xiii) Reserved.
  - (xiv) Include the date of the most recent tune-up for each unit subject to only the requirement to conduct an annual, biennial, or 5-year tune-up according to \$63.7540(a)(10), (11), or (12) respectively. Include the date of the most recent burner inspection if it was not done annually, biennially, or on a 5-year period and was delayed until the next scheduled or unscheduled unit shuldown. 1 § 63.7550(c)]
  - 7.5.4. The permittee shall submit the reports according to the procedures specified in paragraphs (1) through (3) of this section.
    - (2) Within 60 days after the date of completing each performance test (defined in §63.2) as required by this subpart you must submit the results of the performance tests, including any associated fuel analyses, required by this subpart and the compliance reports required in §63.7550(b) to the EPA's WebFIRE database by using the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through the EPA's Central Data Exchange (CDX) (www.epa.govicdx). Performance test data must be submitted in the file format generated through use of the EPA's Electronic Reporting Tool (ERT) (see

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http://www.epa.gov/michiefert/index.html). Only data collected using test methods on the ERT Web site are subject to this requirement for submitting reports electronically to WebFIRE. Owners or operators who claim that some of the information being submitted for performance tests is confidential business information (CBI) must submit a complete ERT file including information claimed to be CBI on a compact disk or other commonly used electronic storage media (including, but not limited to, flash drives) to the EPA. The electronic media must be clearly marked as CBI and mailed to U.S. EPA/OAPQS/CORE CBI Office, Attention: WebFIRE Administrator, MD C404-02, 4930 Old Page Rd., Dutham, NC 27703. The same ERT file with the CBI omitted must be submitted to the EPA via CDX as described earlier in this paragraph. At the discretion of the Administrator, you must also submit these reports, including the confidential business information, to the Administrator in the format specified by the Administrator. For any performance east conducted using test methods that are not listed on the ERT Web site, the owner or operator shall submit the results of the performance test in paper submissions to the Administrator.

- (2) Within 60 days after the date of completing each CEMS performance evaluation test (defined in 63.2) you must submit the relative accuracy test audit (RATA) data to the EPA's Central Data Exchange by using CEDRI as mentioned in paragraph (h)(1) of this section. Only RATA pollutants that can be documented with the ERT (as listed on the ERT Web site) are subject to this requirement. For any performance evaluations with no corresponding RATA pollutants listed on the ERT Web site, the owner or operator shall submit the results of the performance evaluation in paper submissions to the Administrator.
- (3) You must submit all reports required by Table 9 of this subpart electronically using CEDRI that is accessed through the EPA's Central Data Exchange (CDX) (www.epa.gov.cdt). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due the report you must submit the report to the Administrator at the appropriate address listed in §63.13. At the discretion of the Administrator, you must also submit these reports, to the Administrator in the format specified by the Administrator.
  [6 63.7550(m)]

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	CERTIFICATION OF DATA ACCURACY
	I, the undersigned, hereby certify that, based on information and belief formed after reasonable
inquiry.	all information contained in the strached representing the
period t	eginning and ending and any supporting
docume	ars appended hereto, is true, accurate, and complete.
Signatur	
Consider the the	Employment for the design of the angular Authorized Congruss and the conference of t
Name &	
Telepho:	se No Fax No
This	form shall be signed by a "Responsible Official." "Responsible Official" means one of the following:
	For a corporation: The president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit and either:  (i) the facilities employ more than 250 persons or have a gross annual sales or expenditures exceeding \$25 million (in second quarter 1980 dollars), or
	(ii) the delegation of authority to such representative is approved in advance by the Director.
	For a partnership or sole proprietorship: a general partner or the proprietor, respectively;
;	For a municipality. State, Federal, or other public entity; either a principal executive officer or ranking elected official. For the purposes of this part, a principal executive officer of a Federal agency includes the chief executive officer baving responsibility for the overall operations of a principal geographic unit of the agency (e.g., a Regional Administrator of U.S. EPA); or
đ,	The designated representative delegated with such authority and approved in advance by the Director.